

PROCESSING METHOD FOR WASTE GAS FROM FUEL CEL

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Abstract of JP63241877

PURPOSE: To make a waste gas processing device compact by using heat energy produced in removing CO_2 for heating waste gas, leading fluid medium including CaCO_3 produced by absorbing CO_2 to another fluid bed for regeneration, rising temperature so as to form grains mainly including CaO , and circulating the grains to a fluid bed for CO_2 for reuse.

CONSTITUTION: Waste gas from a fuel cell 1 including CO_2 , H_2 , H_2O , etc., is led to a fluid bed 3 consisting of grains mainly including CaO for removing CO_2 , so that CO_2 is removed, and heat energy produced by removal of CO_2 is used for heating waste gas. The heated waste gas is supplied to a reformer 5. Fluid medium including CaCO_3 produced by absorption of CO_2 is led to a fluid bed for regeneration 11. Temperature of this fluid medium is risen for removing CO_2 to form it into grains mainly including CaO . The grains mainly including CaO are circulated to the fluid bed 3 to be reused, thereby a waste gas processing device is made compact.

